

CLAIMS

What is claimed is:

1. A system for two-way radio communication comprising:
 - (a) a first two-way radio comprising:
 - (i) a means for exchanging a two-way radio communication with a base/repeater station; and
 - (ii) a means for selecting and transmitting a signal code to said base/repeater station;
 - (b) a base/repeater station comprising:
 - (i) a base/repeater station decoder for decoding the signal code from said first two-way radio into a signal that can be recognized by a base/repeater station controller and transferring said signal to said base/repeater station controller; and
 - (ii) wherein said base/repeater station controller comprises a means for receiving said decoded signal from said base/repeater station decoder and correlating said decoded signal to one or more internet addresses associated with one or more target base/repeater stations and a means for establishing a bi-directional computer network link with said at least one target station for real time voice and/or data communications;
 - (c) at least one target station comprising:
 - (i) a target station controller a means for establishing a bi-directional computer network link with said base/repeater station for real time voice and/or data communications from said base/repeater station

controller and comprising a means for transferring a signal comprising said real time voice and/or data communications to a target station encoder; and

(ii) wherein said target station encoder receives said real time voice and/or data communications from said target station controller and encodes said signal into a signal code that can be recognized by a second two-way radio; and

(d) at least one second two-way radio comprising a means for exchanging two-way radio communications with a target station and means for receiving said signal code from said target station encoder.

2. A system as defined in Claim 1 wherein said means for selecting a signal code to said base/repeater station is a keypad device.
3. A system as defined in Claim 1 wherein said means for selecting a signal code to said base/repeater station is channel selector device.
4. A system as defined in Claim 1 wherein said signal code is selected from the group consisting of the following signaling methods: DCS, CTCSS, DTMF or any combination thereof.
5. A system as defined in Claim 1 wherein said signaling method comprises a modulated RF carrier.
6. A system as defined in Claim 1 wherein said signal code is selected from the group consisting of the following communication protocols: LTR, MPT-1327, EDACS, conventional (non-trunked) or any combination thereof.

7. A system as defined in Claim 1 wherein said base/repeater station means for correlating the signal to one or more internet addresses associated with a target station is a computer based radio controller comprising a relational data base.
8. A system as defined in 1 wherein the Internet address is an IP address.
9. A system as defined in Claim 1 wherein said a means for establishing a bi-directional computer network link with one or more target base/repeater stations is voice communication system selected from the group consisting of conventional, trunked radio systems or combinations thereof.
10. A system as in Claim 1 wherein said at least one secondary two-way radio is further comprised of a means for transmitting a signal code.
11. A method for conducting two-way radio communication, said method comprising:
 - (a) transmitting a signal code and two-way radio communication from a first two-way radio to a base/repeater station;
 - (b) decoding said signal code and correlating said decoded signal code to one or more internet addresses;
 - (c) establishing a computer network link between said base/repeater station and a target station through said internet address;
 - (d) exchanging real time voice and/or data communications over said computer network link;
 - (e) transmitting said real time voice and/or data communications from said target station to a second two-way radio.
12. A method as defined in Claim 11 wherein said signal code is selected on a keypad device.

13. A method as defined in Claim 11 wherein said signal code is selected on a channel selector device.
14. A method as defined in Claim 11 wherein said signal code is selected from the group consisting of the following signaling methods: DCS, CTCSS, DTMF or any combination thereof.
15. A method as defined in Claim 11 wherein said signal code is selected from the group consisting of the following communication protocols: LTR, MPT-1327, EDACS, or any combination thereof.
16. A method as defined in Claim 11 wherein said signal code is correlated to one or more internet addresses associated with a target station by a radio controller using a computer based relational data base and a suitable decoder.
17. A method as defined in Claim 11 wherein the Internet address is an IP address.
18. A method as defined in Claim 9 wherein said bi-directional computer network link with one or more target base/repeater stations is established by a voice communication system selected from the group consisting of trunked, conventional radio system or a combination thereof.